

Glutaric acid, 1-(2,6-difluorophenyl)ethyl heptyl ester

Inchi:	InChI=1S/C20H28F2O4/c1-3-4-5-6-7-14-25-18(23)12-9-13-19(24)26-15(2)20-16(21)10-8
InchiKey:	URHPLZBKUYGZKN-UHFFFAOYSA-N
Formula:	C20H28F2O4
SMILES:	CCCCCCCOC(=O)CCCC(=O)OC(C)c1c(F)cccc1F
Mol. weight [g/mol]:	370.43

Physical Properties

Property code	Value	Unit	Source
gf	-649.23	kJ/mol	Joback Method
hf	-1129.64	kJ/mol	Joback Method
hfus	49.03	kJ/mol	Joback Method
hvap	80.00	kJ/mol	Joback Method
log10ws	-6.14		Crippen Method
logp	5.253		Crippen Method
mvol	287.320	ml/mol	McGowan Method
pc	1251.26	kPa	Joback Method
rinpol	2380.00		NIST Webbook
rinpol	2380.00		NIST Webbook
tb	844.32	K	Joback Method
tc	1039.66	K	Joback Method
tf	497.12	K	Joback Method
vc	1.125	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	892.31	J/molxK	844.32	Joback Method
cpg	907.71	J/molxK	876.88	Joback Method
cpg	922.02	J/molxK	909.43	Joback Method
cpg	935.26	J/molxK	941.99	Joback Method
cpg	947.45	J/molxK	974.54	Joback Method
cpg	958.60	J/molxK	1007.10	Joback Method
cpg	968.74	J/molxK	1039.66	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U377254&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
h vap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
r in pol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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